DERWENT-ACC-NO: 1999-295086

DERWENT-WEEK: 199926

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TITLE: Permanent magnet motor for turbogenerator of hybrid electric vehicle,

molecular pump - has holder whose thickness is set greater than

peripheral

direction width of slit of stator core

PATENT-ASSIGNEE: HITACHI LTD[HITA]

PRIORITY-DATA: 1997JP-0267727 (September 12, 1997)

PATENT-FAMILY:

LANGUAGE **PAGES** PUB-DATE PUB-NO

MAIN-IPC

N/A 005 April 9, 1999 JP 11098728 A

H02K 001/27

APPLICATION-DATA:

APPL-DESCRIPTOR APPL-NO PUB-NO

APPL-DATE

JP11098728A 1997JP-0267727 N/A

September 12, 1997

INT-CL (IPC): H02K001/16; H02K001/27; H02K015/03; H02K021/14

ABSTRACTED-PUB-NO: JP11098728A

BASIC-ABSTRACT: NOVELTY - A rotor (3) has a rotor core (8) that has

magnets (6) at periphery. The permanent magnets are supported by a holder (7).

The thickness (hb) of the holder is set greater than the peripheral direction

width (hs) of the slit (44). DETAILED DESCRIPTION - The stator (2) has a stator core (4) that includes a stator gear (41) and a yoke (42). The

winding wire (5) is inserted in the slits (44) of the slot (43) of the

The thickness (hm) of the permanent magnet is set smaller than thickness (hb)

of the holder.

USE - For turbogenerator of hybrid electric vehicle, molecular pump.

ADVANTAGE - Reduces weight and size of motor by using efficient permanent magnet. Improves speed range of motor by increasing strength of holder. Reduces electrical eddy current generation in permanent magnet surface by setting thickness of holder larger than radial length of slit. Improves efficiency of motor by canceling flux that flows in magnet. DESCRIPTION

DRAWING(S) - The figure shows front view of stator of permanent magnet motor.

(2) Stator; (3) Rotor; (4) Stator core; (5) Stator winding wire; (6)

magnet; (7) Holder; (8) Rotor core; (41) Stator gear; (42) Yoke; (43)

05/29/2002, EAST Version: 1.03.0002

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	r			2000/05/20 14 22
-	2	turbogenerator near2 motor and hybrid near3	USPAT;	2002/05/29 14:33
		vehicle	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
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			EPO; JPO;	
			DERWENT:	
			IBM TDB	
_	9	turbogenerator and hybrid near3 vehicle	USPAT;	2002/05/29 14:43
	1	carbogonoracor ana nybria nears venicae	US-PGPUB;	
			EPO; JPO;	
			DERWENT:	
			IBM TDB	
	42	generator/motor and hybrid near3 vehicle	USPAT;	2002/05/29 14:40
-	42	generator/motor and nybrid hears venicle	US-PGPUB;	2002/03/23 14:40
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			EPO; JPO;	
			DERWENT;	
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-	0	(0011.02002 201.02002, 1100222 (20 0.03 0.02)	USPAT;	2002/05/29 14:48
		near12 (AC adj3 DC) near12 (DC adj3 AC) and	US-PGPUB;	
	1	hybrid adj vehicle	EPO; JPO;	
1			DERWENT;	•
1			IBM_TDB	•
-	14	(converter inverter) near12 (AC adj3 DC)	USPAT;	2002/05/29 14:48
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	_	(AC adj3 DC) same (DC adj3 AC) and hybrid	US-PGPUB;	
		adj vehicle	EPO; JPO;	
			DERWENT;	
			IBM TDB	
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